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021075-000128.TJC.303955

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

My re patent application of:

Jingsong Xia et al.

Serial No. 10/701,047

Filed November 4, 2003

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) Before the Examiner

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) Not Yet Assigned

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) Group Art Unit 2631

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) September 21, 2004

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to the duty of disclosure in accordance with 37 C.F.R. §1.56, Applicant wishes to bring to the attention of the Examiner the items of information listed on the enclosed Information Disclosure Citation Form. This information has not been previously submitted in this application, and has not been heretofore cited previously by the Examiner. Copies of all U.S. patents, foreign patent documents and non-patent literature are enclosed.

The undersigned hereby certifies that some of the items of information contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

September 21, 2004

Date of Deposit

Troy J. Cole

Name of Registered Representative

Signature


September 21, 2004

Date of Signature

This Statement is not being submitted within three months of the issuance of the communication of the foreign counterpart application, however, this Statement is being submitted prior to the mailing of any Office Action on the merits in the present application. Therefore, no additional fees are believed to be necessary, however, should any fees be deemed required, the Commissioner is authorized to charge such fees to Deposit Account No. 23-3030, but is not to include payment of issue fees.

The filing of this Information Disclosure Statement shall not be construed as an admission that the information cited is, or is considered to be, material to patentability as defined in §1.56(b).

Respectfully submitted

By: 

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WEMMH/SB/08A (4/03)

Approved for use through 10/31/2002. OMB 0651-0031
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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

1

of

5

Complete if Known

Application Number

10/701,047

Filing Date

November 4, 2003

First Named Inventor

Jingsong Xia et al.

Group Art Unit

2631

Examiner Name

Not Yet Assigned

Attorney Docket Number

31075-128

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US - 4,567,599	01/28/1986	Mizoguchi	
		US - 4,712,221	12/08/1987	Pearce et al.	
		US - 4,815,103	03/21/1989	Cupo et al.	
		US - 4,856,031	08/08/1989	Goldstein	
		US - 4,866,395	09/12/1989	Hostetter	
		US - 4,989,090	01/29/1991	Campbell et al.	
		US - 5,052,000	09/24/1991	Wang et al.	
		US - 5,134,480	07/28/1992	Wang et al.	
		US - 5,210,774	05/11/1993	Abbate et al.	
		US - 5,311,546	05/10/1994	Paik et al.	
		US - 5,471,508	11/28/1995	Koslov	
		US - 5,506,636	04/09/1996	Patel et al.	
		US - 5,532,750	07/2/1996	De Haan et al.	
		US - 5,537,435	07/16/1996	Carney et al.	
		US - 5,568,098	10/22/1996	Horie et al.	
		US - 5,568,521	10/22/1996	Williams et al.	

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		EP 0,524,559 B1	05/02/1997	Paik et al.		
		EP 0,752,185 B1	07/17/2002	Strolle et al.		
		WO 00/27033	05/11/2000	Tan et al.		
		WO 00/27066	05/11/2000	Jaffe et al.		
		WO 01/01650 A1	01/04/2001	Bourdeau		
		WO 01/13516 A2	02/22/2001	Jaffe et al.		

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			Application Number	10/701,047	
			Filing Date	November 4, 2003	
			First Named Inventor	Jingsong Xia et al.	
			Group Art Unit	2631	
			Examiner Name	Not Yet Assigned	
Sheet	2	of	5	Attorney Docket Number	31075-128

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		Number-Kind Code ² (if known)			
		US - 5,619,154	04/08/1997	Strolle et al.	
		US - 5,648,987	04/15/1997	Yang et al.	
		US - 5,692,014	11/25/1997	Basham et al.	
		US - 5,789,988	08/04/1998	Sasaki	
		US - 5,802,461	09/01/1998	Gatherer	
		US - 5,805,242	09/08/1998	Strolle et al.	
		US - 5,828,705	10/27/1998	Kroeger et al.	
		US - 5,835,532	11/10/1998	Strolle et al.	
		US - 5,862,156	01/19/1999	Huszar et al.	
		US - 5,870,433	02/09/1999	Huber et al.	
		US - 5,894,334	04/13/1999	Strolle et al.	
		US - 5,995,154	11/30/1999	Heimbürger	
		US - 6,005,640	12/21/1999	Strolle et al.	
		US - 6,034,734	03/7/2000	De Haan et al.	
		US - 6,034,998	03/07/2000	Takashi et al.	
		US - 6,044,083	03/28/2000	Citta et al.	
		US - 6,069,524	05/30/2000	Mycynek et al.	

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		WO 01/43310 A2	06/14/2001	Jaffe et al.		
		WO 01/43384 A2	06/14/2001	Jaffe et al.		

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		Number-Kind Code ² (if known)			
		US - 6,133,785	10/17/2000	Bourdeau	
		US - 6,133,964	10/17/2000	Han	
		US - 6,145,114	11/07/2000	Crozier et al.	
		US - 6,154,487	11/28/2000	Murai et al.	
		US - 6,195,400 B1	02/27/2001	Maeda	
		US - 6,198,777 B1	03/06/2001	Feher	
		US - 6,219,379 B1	04/17/2001	Ghosh	
		US - 6,222,891 B1	04/24/2001	Liu et al.	
		US - 6,226,323 B1	05/01/2001	Tan et al.	
		US - 6,233,286	05/15/2001	Wei	
		US - 6,260,053 B1	07/10/2001	Maulik et al.	
		US - 6,272,173 B1	08/07/2001	Hatamian	
		US - 6,275,554 B1	08/14/2001	Bouillet et al.	
		US - 6,278,736 B1	08/21/2001	De Haan et al.	
		US - 6,304,614	10/16/2001	Abbaszadeh et al.	
		US - 6,307,901 B1	10/23/2001	Yu et al.	
		US - 6,333,767 B1	12/25/2001	Patel et al.	
		US - 6,356,586	03/12/2002	Krishnamoorthy et al.	

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		Number-Kind Code ² (if known)			
		US - 6,363,124 B1	03/26/2002	Cochran	
		US - 6,411,341 B1	06/25/2002	De Haan et al.	
		US - 6,411,659 B1	06/25/2002	Liu et al.	
		US - 6,415,002 B1	07/02/2002	Edwards et al.	
		US - 6,421,378 B1	07/16/2002	Fukuoka et al.	
		US - 6,438,164 B2	08/20/2002	Tan et al.	
		US - 6,452,639 B1	09/17/2002	Wagner et al.	
		US - 6,466,630 B1	10/15/2002	Jensen	
		US - 6,490,007 B1	12/03/2002	Bouillet et al.	
		US - 6,493,409 B1	12/10/2002	Lin et al.	
		US - 6,507,626 B1	01/14/2003	Limberg	
		US - 6,535,553 B1	03/18/2003	Limberg et al.	
		US - 6,611,555 B2	08/26/2003	Smith et al.	
		US - 6,734,920 B2	05/11/2004	Ghosh et al.	
		US - 2001/0048723 A1	12/06/2001	Oh	
		US - 2002/0024996 A1	02/28/2002	Agazzi et al.	
		US - 2002/0136329 A1	09/26/2002	Liu et al.	
		US - 2002/0154248 A1	10/24/2002	Wittig et al.	
		US - 2002/0172275 A1	11/21/2002	Birru	
		US - 2002/0172276 A1	11/21/2002	Tan et al.	
		US - 2002/0186762	12/12/2002	Xia et al.	
		US - 2002/0191716	12/19/2002	Xia et al.	
		US - 2003/0058967 A1	03/27/2003	Lin et al.	

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